

Jug Mountain Ranch
Wastewater Treatment Facility

July 2011

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pH Temp MbtH Conc

Date	Time	Operator	Influent (gallons)		Effluent (gallons)		pH	Temp	MbtH	Conc
			Total	Daily	Total	Daily				
1-Jul-11	6:05	cc	7009550	2502	613947	4838	7.0	16.2°C	58.58	F 10.260
2-Jul-11	6:30	cc	7105126	4576	6137964	4823	7.6	16.4°C	50	45
3-Jul-11	6:00	cc	7110097	4971	6142136	4772	7.6	16.5°C	48	50
4-Jul-11	6:00	cc	7116516	6419	6147516	4860	7.6	16.6°C	47	F 110
5-Jul-11	6:30	cc	7121837	5323	6152336	4742	7.6	16.7°C	45	42
6-Jul-11	6:30	cc	7126911	5072	6157083	4745	7.5	16.8°C	43	28
7-Jul-11	6:30	cc	7130206	3295	6162410	5327	7.6	16.8°C	40	F 13
8-Jul-11	7:30	cc	7133360	3154	6166277	3867	7.6	16.7°C	39	45
9-Jul-11	7:00	cc	7136355	2995	6171931	5654	7.6	16.1°C	37	50
10-Jul-11	7:00	cc	7140002	3647	6177397	5466	7.6	16.4°C	35	F 16
11-Jul-11	6:00	cc	7143915	3713	6181471	4074	7.6	16.5°C	33	43
12-Jul-11	6:30	cc	7147159	3244	6186277	4806	7.7	17.3°C	31	27
13-Jul-11	7:30	cc	7149585	2426	6190375	4098	7.7	17.2°C	30	F 17
14-Jul-11	7:30	cc	7151985	2400	6195197	4822	7.7	17.1°C	28	42
15-Jul-11	7:30	cc	7155242	3237	6200117	4922	7.7	17.0°C	27	F 13
16-Jul-11	8:30	cc	7157817	2577	6205810	5721	7.7	17.3°C	25	42
17-Jul-11	7:00	cc	7159775	1956	6210031	4191	7.7	17.4°C	24	F 15
18-Jul-11	10:00	cc	7163916	4141	6215482	5451	7.7	17.9°C	23	25
19-Jul-11	7:00	cc	7165061	1153	6219420	3938	7.7	18.0°C	22	F 45
20-Jul-11	6:30	cc	7166879	1810	6224289	4869	7.5	18.2°C	20	45
21-Jul-11	10:45	cc	7169580	2701	6228957	4670	7.5	18.1°C	19	51
22-Jul-11										
23-Jul-11										
24-Jul-11										
25-Jul-11										
26-Jul-11										
27-Jul-11										
28-Jul-11										
29-Jul-11										
30-Jul-11										
31-Jul-11										

Figure 1. Log sheet for Jug Mountain Ranch SBR treatment system (July).

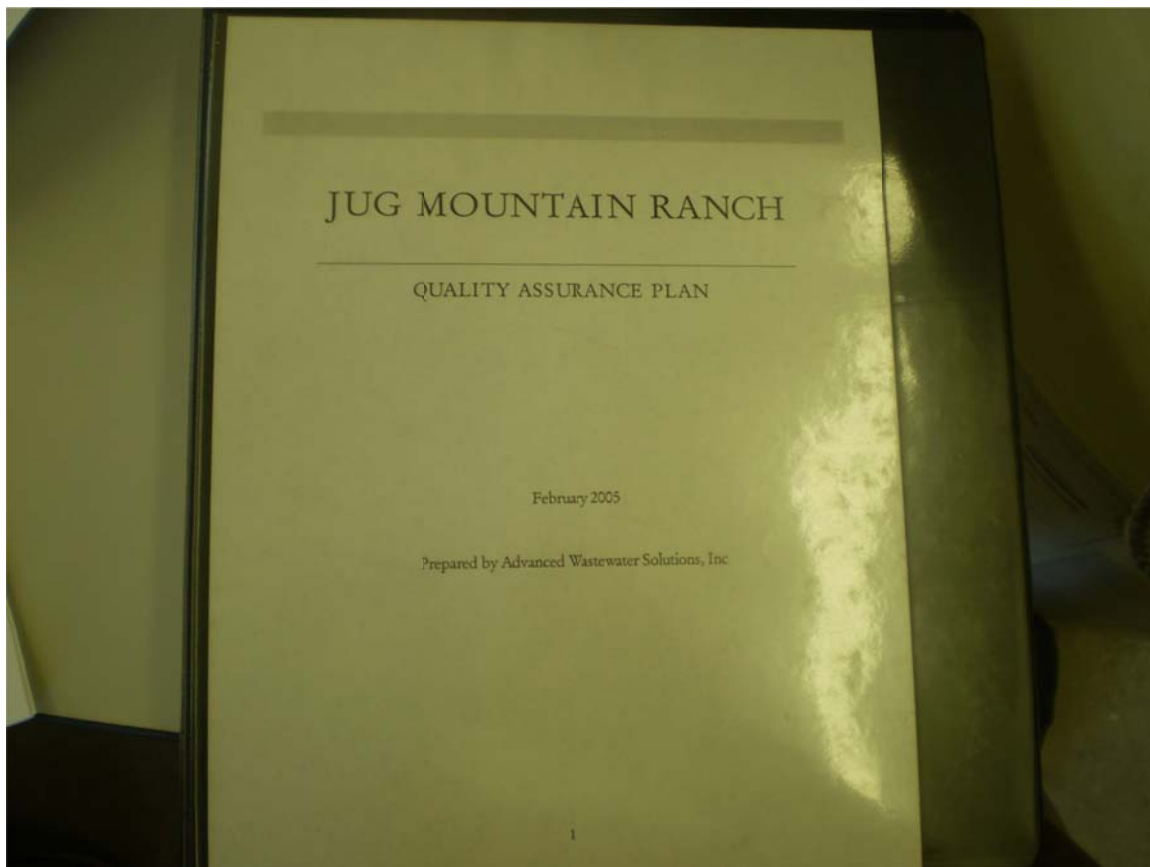


Figure 2. Cover of permittee's QAP.



Figure 3. Operational manuals for the system and other reports and records.



Figure 4. Onsite laboratory facilities.



Figure 5. Coagulant addition (far right), UV disinfection system (center), methanol addition (left).



Figure 6. Equipment and analytical sample container storage.



Figure 7 Methanol addition with analytical sample container storage on shelves to left.



Figure 8. Coagulant addition with plant control terminal behind.



Figure 9. Influent flow meter.



Figure 10. Close-up of lamp intensity gauge for in-line UV disinfection system. Top lamp is relatively new while bottom one shows lessening of intensity due to fouling. Operator has replacement lamps on hand.



Figure 11. Access hatches for both SBRs.



Figure 12. Exterior of operational building.



Figure 13. SBR splitter box. Influent sampling point.



Figure 14. Activated sludge pumps for reacting stage of treatment.



Figure 15. Settling stage of treatment.



Figure 16. Decanting phase valves.



Figure 17. Plant effluent sampling point prior to disinfection.



Figure 18. Upflow sand filter.



Figure 19. Air compressor.



Figure 20. Sand filter control panel.



Figure 21. Sampling point for bacteriological samples (located after UV disinfection).



Figure 22. Manhole cover for effluent from treatment plant.



Figure 23. Interior of effluent manhole showing discharge pipe from treatment plant.



Figure 24. Discharge point is located in Cold Creek (area of high-density trees and bushes) approximately 100 feet from manhole. The upstream sample is taken approximately 200 feet upstream (to the left) of the discharge point.



Figure 25. Discharge sampling point (inlet to Carey Pond). Vegetation at rear of photo is on a beaver dam which is periodically perforated by facility personnel.